

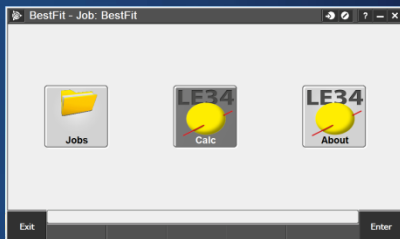
Trimble Access Software: LE34 BestFit

Key Features

Uses any stored Job file.

Calculates a BestFit result for well-defined 3D shapes.

Stores results in the job file for Setting out, calculation of intersections and/or documentation.



LE34

Learn more at:

<http://apps.trimbleaccess.com>

BestFit for dimensional control

BestFit for dimensional control

The BestFit application by LE34 adds a powerful tool to the Trimble® Access™ family of applications. It enables calculation of best-fit solutions for well-defined 3D geometric shapes, such as lines, planes, circles, spheres and cylinders. The BestFit result is then stored in a job file for later documentation or use in the field. BestFit uses the Least Squares algorithm in order to optimize the resultant shape within the given set of points.

Survey mode

There is no special survey mode – simply use Trimble Access to collect your data points and run the application to obtain immediate results.

On-the-fly calculation

Having chosen the job, geometric shape and points you can calculate the unknown parameters of the shape. On-the-fly calculations allow you to evaluate results before approving and storing them in the job file.

Two-point results

Generally, the result of determining fit for any geometric shape (with the exception of spheres) is a line defined by two points, with a distance between them of one unit, forming a unit vector. The resultant unit vectors are used as input for calculation of intersections.

Intersection

Stored parameters, normals and vectors of surveyed geometric shapes allow calculation of intersections between lines, line and plane, sphere or cylinder, 2 or 3 planes plus projection of a point to a line or plane.

Storing and Reports

Storing the result of the calculations in the job file enables the user to set-out specific parameters of the geometric shapes or intersections on the spot without any office calculations. Comprehensive reports are generated as documentation.

Job

FEATURE	DETAILS
Job	• From standard Trimble menu
	• New job
	• Open job
	• Review current job
	• Point manager
	• Properties of current job

Geometric Shapes

FEATURE	DETAILS
Object type	• Line
	• Plane
	• Circle
	• Sphere
	• Cylinder
	• Point to plane

Intersections

FEATURE	DETAILS
Intersections	• Intersection 2 lines
	• Intersection line to plane
	• Intersection 2 planes
	• Intersection 3 planes
	• Intersection line to sphere
	• Intersection line to cylinder

PROJECTIONS

FEATURE	DETAILS
Projections	• Point to plane: 1 point
	• Point to line: 1 point

Typical use cases

USAGE	DETAILS
Surveyors/ Engineers	• Surveyors that need to document and/or set out objects and guidelines described by lines, planes, circles, spheres or cylinders
	• Very useful in layout and maintenance for industrial plants, shipyards, oil platforms, etc.

More information

INFORMATION

For more detailed information refer to LE34 homepage:

www.bestfit.dk or
support@bestfit.dk

Requirements

Supported Controllers:

- TSC3 Controller
- TSC2 Controller
- TCU (Model) Controller
- Trimble Tablet 1 and 2

Languages:

- English
- Danish
- ... on request